

Application No. 10/733499
Page 3

Amendment
Attorney Docket No. A39.2B-11304-US01

Amendments To The Claims:

1. (Currently amended) A system for programming a fuze comprising:
a fuze having a receiver, the receiver located within the fuze; and
a fuze setter having a transmitter;
wherein pre-launch fuze setting data is transmitted from the transmitter to the receiver via an electromagnetic signal selected from a group consisting of the ~~audio~~, ultrasonic, infrared, RF, visible and UV bands of the electromagnetic spectrum.
2. (Currently amended) The system of claim 1, wherein the fuze setter further comprises an inductive transmitter; the fuze further comprises a magnetic transducer; and operational power for the fuze ~~is may be~~ inductively transmitted from the fuze setter to the fuze.
3. (Currently amended) The system of claim 1, wherein the fuze further includes a transmitter; the fuze setter further includes a receiver; and the setting data received by the fuze ~~is may be~~ verified by a reverse transmission from the fuze transmitter back to the fuze setter receiver.
4. (Original) The system of claim 1, wherein the transmitter is within 6 inches of the receiver.
5. (Currently amended) A system for programming a fuze comprising:
a fuze having a radio frequency receiver, the radio frequency receiver located within the fuze; and
a fuze setter having a radio frequency transmitter;
wherein pre-launch fuze setting data is transmitted from the radio frequency transmitter and received by the radio frequency receiver.
6. (Original) The system of claim 5, wherein the radio frequency receiver of the fuze comprises a radio frequency transceiver; and the radio frequency transmitter of the fuze setter comprises a radio frequency transceiver.
7. (Currently amended) The system of claim 6, wherein a talkback signal ~~is may be~~ sent from the fuze transceiver to the fuze setter transceiver to verify the setting data.
8. (Original) The system of claim 5, wherein the fuze setting data is transmitted via a frequency modulated carrier signal.
9. (Original) The system of claim 8, wherein the fuze setting data is transmitted using frequency shift keying.

Application No. 10/733499
Page 4

Amendment
Attorney Docket No. A39.2B-11304-US01

10. (Currently amended) The system of claim 5, wherein the fuze setter further comprises an inductive transmitter; the fuze further comprises a magnetic transducer; and operational power for the fuze ~~is may be~~ inductively transmitted from the fuze setter to the fuze.

11. (Original) The system of claim 5, wherein the transmitter is within 6 inches of the receiver.

12. (Original) The system of claim 5, wherein the transmitter comprises a level shifter, a modulation circuit and an antenna.

13. (Original) The system of claim 12, wherein the level shifter comprises a first digital-to-analog converter and a second digital-to-analog converter, the output of the first digital-to-analog converter having a higher voltage than the output of the second digital-to-analog converter.

14. (Original) The system of claim 5, wherein the receiver comprises an antenna, a modulation circuit and an analog-to-digital converter.

15. (Currently amended) The system of claim 5, wherein at least 1,000 bits/second ~~is may be~~ transmitted from the transmitter to the receiver.

16. (Currently amended) The system of claim 5, wherein at least 70,000 bits/second ~~is may be~~ transmitted from the transmitter to the receiver.

17. (Currently amended) The system of claim 5, wherein at least 500,000 bits/second ~~is may be~~ transmitted from the transmitter to the receiver.

18. (Currently amended) The system of claim 5, wherein at least 1,000,000 bits/second ~~is may be~~ transmitted from the transmitter to the receiver.

19. (Withdrawn) A fuze setter comprising:
a controller;
a magnetic inductive portion for generating a magnetic waveform output; and
a radiative transmitter portion generating a radiative data signal output;
wherein the radiative data signal output contains fuze setting data.

20. (Withdrawn) The fuze setter of claim 19, wherein the radiative transmitter portion comprises a radio-frequency transmitter.

21. (Currently amended) A method of setting a projectile fuze comprising:
providing a fuze having a radio frequency receiver located within the fuze;
providing a fuze setter having a radio frequency transmitter; and

Application No. 10/733499
Page 5

Amendment
Attorney Docket No. A39.2B-11304-US01

transmitting setting data from the radio frequency transmitter to the radio frequency receiver.

22. (Original) The method of claim 21, wherein the step of transmitting setting data from radio frequency transmitter to the radio frequency receiver comprises:

- modulating a radio frequency carrier signal using frequency shift keying;
- transmitting the modulated carrier signal via the radio frequency transmitter;
- receiving the modulated carrier signal via the radio frequency receiver; and
- down converting the modulated carrier signal.

23. (Original) The method of claim 21, further comprising:

- providing the fuze with a magnetic transducer;
- providing the fuze setter with a magnetic transmitter; and
- inductively transmitting power to the fuze.

24. (New) A system for programming a fuze comprising:

- a fuze comprising a receiver, the receiver located within the fuze; and
- a fuze setter having a transmitter;

wherein the transmitter transmits an electromagnetic signal comprising pre-launch fuze setting data, and the receiver receives the electromagnetic signal.

25. (New) The system of claim 24, wherein the electromagnetic signal has a frequency ranging from greater than 100 kHz to 100 PHz.